

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1008272

Luminaire Tested: S122DIP-B865D725UB2750-4F0-XX-W2A-D\_4000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1008272  
REPORT IS A COMBINATION OF REPORTS P984915 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B865D725UB2750-4F0-XX-W2A-D\_4000K  
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

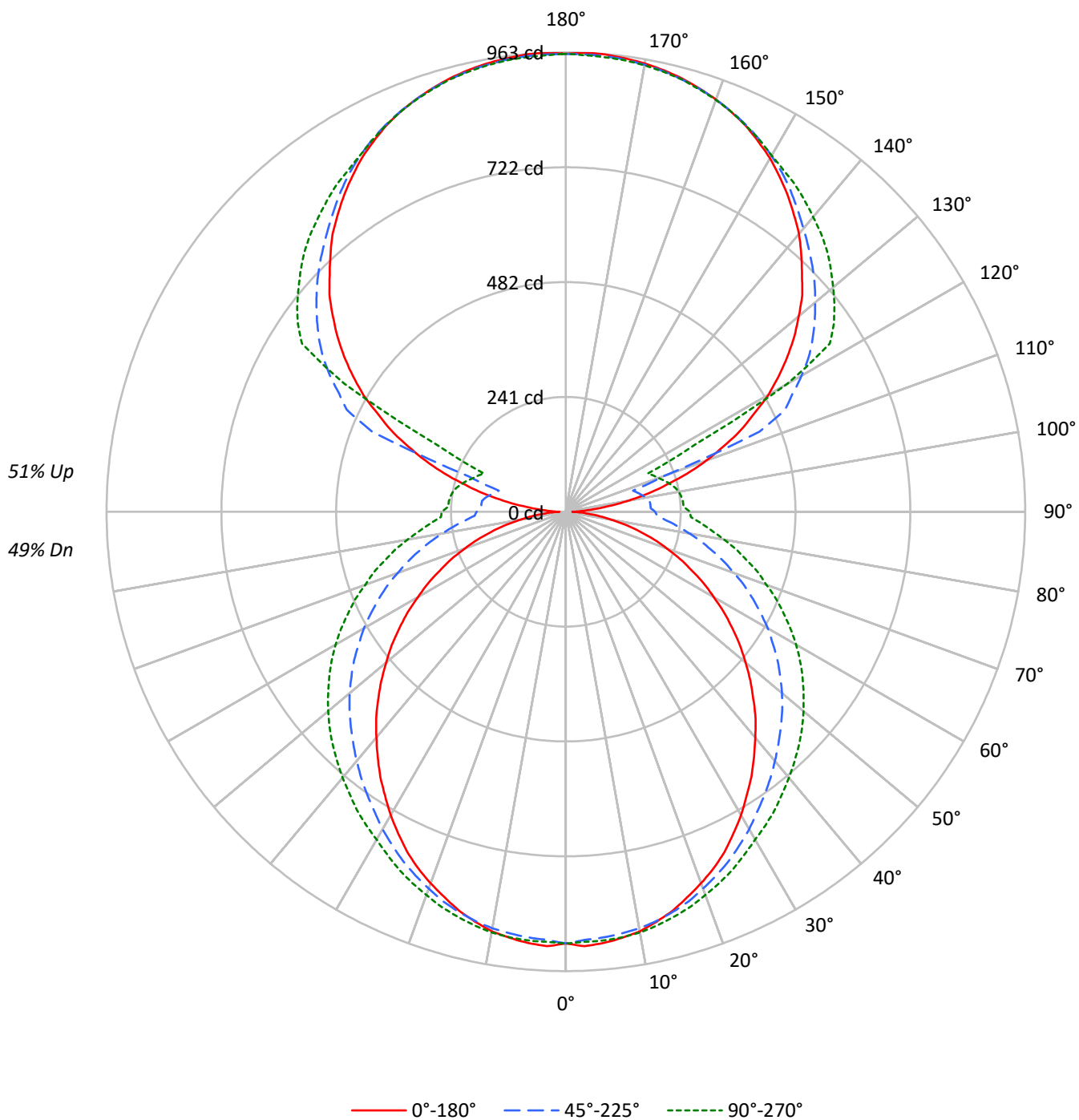
Lumens per Lamp: N/A  
Luminaire Lumens: 6269.0 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 67.9  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 83 | 83 | 83 | 68 | 68 | 68 | 55 | 55 | 55 |
| 1   | 96  | 91  | 87  | 83  | 88 | 84 | 80 | 77 | 70 | 68 | 65 | 58 | 56 | 54 | 46 | 45 | 44 |
| 2   | 87  | 79  | 72  | 66  | 80 | 73 | 67 | 62 | 61 | 56 | 53 | 50 | 47 | 44 | 40 | 38 | 36 |
| 3   | 79  | 69  | 61  | 55  | 72 | 63 | 56 | 51 | 53 | 48 | 44 | 44 | 40 | 36 | 35 | 32 | 30 |
| 4   | 72  | 60  | 52  | 46  | 66 | 56 | 48 | 43 | 47 | 41 | 37 | 39 | 34 | 31 | 31 | 28 | 25 |
| 5   | 66  | 54  | 45  | 39  | 60 | 50 | 42 | 36 | 42 | 36 | 31 | 35 | 30 | 26 | 28 | 24 | 22 |
| 6   | 61  | 48  | 40  | 33  | 55 | 44 | 37 | 31 | 37 | 32 | 27 | 31 | 26 | 23 | 25 | 22 | 19 |
| 7   | 56  | 43  | 35  | 29  | 51 | 40 | 33 | 27 | 34 | 28 | 24 | 28 | 24 | 20 | 23 | 19 | 17 |
| 8   | 52  | 39  | 31  | 26  | 47 | 36 | 29 | 24 | 31 | 25 | 21 | 26 | 21 | 18 | 21 | 17 | 15 |
| 9   | 48  | 36  | 28  | 23  | 44 | 33 | 26 | 21 | 28 | 23 | 19 | 24 | 19 | 16 | 19 | 16 | 13 |
| 10  | 45  | 33  | 25  | 20  | 41 | 30 | 24 | 19 | 26 | 20 | 17 | 22 | 17 | 14 | 18 | 14 | 12 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 14326 | 14326 | 14326 |
| 5°  | 14390 | 13714 | 13636 |
| 10° | 14294 | 13239 | 13046 |
| 15° | 14091 | 12747 | 12439 |
| 20° | 13837 | 12231 | 11864 |
| 25° | 13585 | 11737 | 11343 |
| 30° | 13234 | 11236 | 10827 |
| 35° | 12878 | 10751 | 10447 |
| 40° | 12502 | 10333 | 10070 |
| 45° | 12145 | 9953  | 9742  |
| 50° | 11761 | 9603  | 9417  |
| 55° | 11357 | 9232  | 9087  |
| 60° | 10863 | 8845  | 8741  |
| 65° | 10352 | 8400  | 8341  |
| 70° | 9770  | 7922  | 7911  |
| 75° | 9023  | 7444  | 7505  |
| 80° | 7856  | 6946  | 7087  |
| 85° | 6667  | 6480  | 6723  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12145 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 85.8   | 1.4       |
| 10°-20°   | 246.0  | 3.9       |
| 20°-30°   | 372.8  | 5.9       |
| 30°-40°   | 454.0  | 7.2       |
| 40°-50°   | 488.4  | 7.8       |
| 50°-60°   | 474.4  | 7.6       |
| 60°-70°   | 414.3  | 6.6       |
| 70°-80°   | 318.8  | 5.1       |
| 80°-90°   | 215.2  | 3.4       |
| 90°-100°  | 179.0  | 2.9       |
| 100°-110° | 225.6  | 3.6       |
| 110°-120° | 384.0  | 6.1       |
| 120°-130° | 558.6  | 8.9       |
| 130°-140° | 568.0  | 9.1       |
| 140°-150° | 515.2  | 8.2       |
| 150°-160° | 412.0  | 6.6       |
| 160°-170° | 265.5  | 4.2       |
| 170°-180° | 91.4   | 1.5       |
| <hr/>     |        |           |
| 0°-30°    | 704.6  | 11.2      |
| 0°-40°    | 1158.6 | 18.5      |
| 0°-60°    | 2121.4 | 33.8      |
| 0°-90°    | 3069.7 | 49.0      |
| 90°-120°  | 788.6  | 12.6      |
| 90°-150°  | 2430.4 | 38.8      |
| 90°-180°  | 3199.0 | 51.0      |
| 0°-180°   | 6269.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 905 | 905   | 905 | 905   | 905 |      |
| 5°   | 908 | 904   | 896 | 904   | 902 | 86   |
| 15°  | 866 | 868   | 868 | 880   | 879 | 244  |
| 25°  | 787 | 796   | 808 | 824   | 828 | 362  |
| 35°  | 678 | 700   | 725 | 754   | 763 | 424  |
| 45°  | 556 | 592   | 637 | 678   | 691 | 429  |
| 55°  | 426 | 474   | 542 | 589   | 606 | 381  |
| 65°  | 291 | 355   | 433 | 487   | 504 | 289  |
| 75°  | 161 | 235   | 319 | 375   | 392 | 171  |
| 85°  | 47  | 128   | 212 | 268   | 286 | 50   |
| 90°  | 14  | 98    | 187 | 243   | 260 | 12   |
| 95°  | 56  | 94    | 178 | 231   | 246 | 62   |
| 105° | 218 | 277   | 155 | 209   | 226 | 233  |
| 115° | 405 | 431   | 507 | 225   | 190 | 398  |
| 125° | 567 | 576   | 632 | 672   | 686 | 506  |
| 135° | 700 | 711   | 731 | 765   | 774 | 541  |
| 145° | 811 | 810   | 822 | 834   | 838 | 507  |
| 155° | 893 | 886   | 895 | 899   | 893 | 411  |
| 165° | 940 | 936   | 938 | 943   | 938 | 266  |
| 175° | 962 | 957   | 959 | 963   | 956 | 92   |
| 180° | 960 | 960   | 960 | 960   | 960 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 905.0 | 905.0 | 905.0 | 905.0 | 905.0 |
| 2.5°   | 911.5 | 907.6 | 898.4 | 905.0 | 902.3 |
| 5°     | 907.6 | 903.6 | 895.8 | 903.6 | 902.3 |
| 7.5°   | 901.0 | 898.4 | 891.8 | 901.0 | 899.7 |
| 10°    | 893.2 | 890.5 | 886.6 | 897.1 | 895.8 |
| 12.5°  | 880.0 | 881.3 | 878.7 | 889.2 | 887.9 |
| 15°    | 865.6 | 868.2 | 868.2 | 880.0 | 878.7 |
| 17.5°  | 847.2 | 852.5 | 856.4 | 868.2 | 868.2 |
| 20°    | 828.9 | 835.4 | 840.7 | 855.1 | 855.1 |
| 22.5°  | 809.2 | 817.1 | 825.0 | 839.4 | 842.0 |
| 25°    | 786.9 | 796.1 | 807.9 | 823.6 | 827.6 |
| 27.5°  | 760.7 | 775.1 | 788.2 | 807.9 | 810.5 |
| 30°    | 734.5 | 751.5 | 768.6 | 789.5 | 793.5 |
| 32.5°  | 705.6 | 725.3 | 746.3 | 771.2 | 779.1 |
| 35°    | 678.1 | 700.4 | 725.3 | 754.1 | 763.3 |
| 37.5°  | 647.9 | 672.8 | 704.3 | 735.8 | 745.0 |
| 40°    | 617.7 | 646.6 | 682.0 | 716.1 | 727.9 |
| 42.5°  | 588.9 | 617.7 | 659.7 | 697.7 | 709.5 |
| 45°    | 556.1 | 591.5 | 637.4 | 678.1 | 691.2 |
| 47.5°  | 524.6 | 562.6 | 615.1 | 657.1 | 671.5 |
| 50°    | 491.8 | 532.5 | 591.5 | 636.1 | 650.5 |
| 52.5°  | 460.3 | 503.6 | 566.6 | 612.5 | 628.2 |
| 55°    | 426.2 | 473.5 | 541.7 | 588.9 | 605.9 |
| 57.5°  | 393.5 | 445.9 | 514.1 | 565.3 | 582.3 |
| 60°    | 358.0 | 414.4 | 489.2 | 539.0 | 557.4 |
| 62.5°  | 326.6 | 385.6 | 460.3 | 514.1 | 531.2 |
| 65°    | 291.2 | 355.4 | 432.8 | 486.6 | 503.6 |
| 67.5°  | 259.7 | 326.6 | 405.3 | 459.0 | 477.4 |
| 70°    | 225.6 | 293.8 | 375.1 | 431.5 | 447.2 |
| 72.5°  | 194.1 | 264.9 | 347.6 | 402.6 | 422.3 |
| 75°    | 161.3 | 234.8 | 318.7 | 375.1 | 392.1 |
| 77.5°  | 129.8 | 205.9 | 291.2 | 347.6 | 365.9 |
| 80°    | 98.4  | 178.4 | 263.6 | 318.7 | 337.1 |
| 82.5°  | 72.1  | 150.8 | 237.4 | 292.5 | 309.5 |
| 85°    | 47.2  | 128.5 | 212.5 | 267.6 | 285.9 |
| 87.5°  | 28.9  | 107.5 | 191.5 | 245.3 | 262.3 |
| 90°    | 13.8  | 97.5  | 187.0 | 243.0 | 260.1 |
| 92.5°  | 29.2  | 95.9  | 178.0 | 230.6 | 247.0 |
| 95°    | 55.7  | 94.3  | 177.9 | 231.3 | 246.3 |
| 97.5°  | 90.5  | 89.9  | 177.0 | 227.7 | 244.1 |
| 100°   | 132.1 | 85.5  | 170.8 | 224.9 | 240.6 |
| 102.5° | 176.7 | 218.5 | 163.0 | 217.8 | 234.3 |
| 105°   | 217.8 | 276.6 | 155.2 | 208.7 | 225.9 |
| 107.5° | 267.1 | 315.9 | 147.4 | 199.6 | 216.8 |
| 110°   | 312.9 | 353.8 | 217.3 | 189.8 | 207.0 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 357.4 | 390.9 | 439.5 | 182.0 | 198.6 |
| 115°   | 404.6 | 430.9 | 507.3 | 225.0 | 189.5 |
| 117.5° | 444.3 | 468.7 | 535.6 | 475.7 | 306.8 |
| 120°   | 490.1 | 505.9 | 570.8 | 615.9 | 536.5 |
| 122.5° | 529.0 | 541.5 | 603.9 | 643.5 | 656.0 |
| 125°   | 567.3 | 576.4 | 631.6 | 671.8 | 685.7 |
| 127.5° | 603.5 | 611.9 | 657.7 | 697.4 | 709.9 |
| 130°   | 637.5 | 647.3 | 682.5 | 721.6 | 731.4 |
| 132.5° | 672.2 | 680.0 | 707.3 | 743.6 | 753.4 |
| 135°   | 700.1 | 711.2 | 730.6 | 765.1 | 774.2 |
| 137.5° | 730.7 | 739.0 | 752.5 | 784.4 | 791.5 |
| 140°   | 760.5 | 764.8 | 775.0 | 802.3 | 806.7 |
| 142.5° | 785.5 | 789.1 | 798.1 | 819.4 | 822.5 |
| 145°   | 810.6 | 809.9 | 821.7 | 834.5 | 837.5 |
| 147.5° | 833.6 | 831.5 | 843.3 | 848.1 | 849.2 |
| 150°   | 855.8 | 850.9 | 862.0 | 866.2 | 862.7 |
| 152.5° | 874.5 | 869.0 | 879.4 | 883.6 | 878.7 |
| 155°   | 892.6 | 886.3 | 894.7 | 898.8 | 893.3 |
| 157.5° | 907.2 | 901.6 | 907.9 | 912.7 | 907.2 |
| 160°   | 919.7 | 915.5 | 919.7 | 923.9 | 919.0 |
| 162.5° | 930.8 | 926.6 | 930.1 | 935.0 | 928.7 |
| 165°   | 940.5 | 936.4 | 938.4 | 943.3 | 938.4 |
| 167.5° | 948.2 | 944.0 | 946.1 | 950.9 | 944.7 |
| 170°   | 954.4 | 950.3 | 951.6 | 956.5 | 950.3 |
| 172.5° | 958.6 | 954.4 | 955.8 | 960.7 | 954.4 |
| 175°   | 962.1 | 957.2 | 958.6 | 963.4 | 956.5 |
| 177.5° | 963.4 | 958.6 | 959.3 | 964.1 | 957.9 |
| 180°   | 960.0 | 960.0 | 960.0 | 960.0 | 960.0 |

(END OF REPORT)